



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

We the Application of:

Amr M. MOHSEN

Serial No.: 10/052,671

Filed: January 17, 2002

For: Field Programmable Printed Circuit  
Board

Atty. Docket No.: 003921.00248

Group Art Unit: 2128

Examiner: Hugh M. Jones

Confirmation No. 6141

**REVOCATION AND POWER OF ATTORNEY**

The Honorable Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Dear Sir:

By virtue of an Assignment (copy attached) executed on June 27 and July 6, 2005, and submitted to the U.S. Patent and Trademark Office for recordation on September 1, 2005, Mentor Graphics Corporation is the owner of all right, title, and interest in and to the above-identified patent application.

On behalf of the assignee, Mentor Graphics Corporation, I hereby revoke any and all previous powers of attorney and hereby appoint, with full power of substitution and revocation, the attorneys at Customer Number 22907 (Banner & Witcoff, Ltd.), both jointly and severally, to transact all business in the U.S. Patent and Trademark Office in connection with the above-captioned patent application.

Serial No.: 10/052,671

Attorney Docket No.: 003921.00248

All correspondence and telephone communications should be addressed to:

Customer Number 22907

MENTOR GRAPHICS CORPORATION

Dated:

6 Jan 06

By:

  
Mark A. Porter  
Senior IP Counsel

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RECORDATION FORM COVER SHEET

Atty. Docket No. 003921.00242

PATENTS ONLY

To the Director of the U.S. Patents and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Aptix Corporation

Execution Date(s) 6/27/05; 7/6/05

Additional name of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Mentor Graphics Corporation

Internal Address: \_\_\_\_\_

Street Address: 8005 SW Boeckman Road

City: Wilsonville

State: OR

Country: \_\_\_\_\_ Zip: 97070-7777

Additional Name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

4. Application number(s) or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

1. 09/797,159 (Pub. No. 20010009032)  
2. 10/052,671 (Pub. No. 20020100010)

B. Patent No.(s)

1. 6,160,276  
2. 5,973,340  
3. 5,903,041

Additional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: Christopher L. McKee

Internal Address: Banner & Witcoff, Ltd.

Street Address: 1001 G Street, N.W.

11<sup>th</sup> Floor

City: Washington

State: D.C. Zip: 20001-4597

Phone Number: 202-824-2000

Fax Number: 202-824-3001

Email Address: cmckee@bannerwitcoff.com

6. Total number of applications and patents involved: 36

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 1,440.00

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 19-0733

Authorized User Name Banner & Witcoff, Ltd.

9. Signature :

Signature

Christopher L. McKee, Registration No. 32,384

Name of Person Signing

Date

Total number of pages including cover sheet, attachments, and documents

6

**CONTINUED LISTING OF PATENTS FROM BOX NO. 4  
OF RECORDATION FORM COVER SHEET**

<b><u>U.S. Patent Nos.</u></b>	
4.	5,661,409
5.	5,654,564
6.	5,640,308
7.	5,544,069
8.	5,504,354
9.	5,451,811
10.	5,432,708
11.	5,414,638
12.	5,413,489
13.	5,412,261
14.	5,406,138
15.	5,400,948
16.	5,400,294
17.	5,400,262
18.	5,384,433
19.	5,383,787
20.	5,377,124
21.	5,371,390
22.	5,367,482
23.	5,341,267
24.	5,321,322
25.	5,319,261
26.	5,315,545
27.	5,313,021
28.	5,311,053
29.	5,301,147
30.	5,264,741
31.	5,257,239
32.	5,239,503
33.	5,077,451
34.	5,055,973

# A S S I G N M E N T

## UNITED STATES PATENT PROPERTIES

WHEREAS, Aptix Corporation (hereinafter Assignor), a corporation organized under the laws of the state of California, having offices at 1249 Innsbruck Drive, Sunnyvale, CA 94089, warrants and states it is the sole and exclusive owner of the following United States Patents and United States Patent Applications (hereinafter called the Patent Properties):

Publication No.	Title
6,160,276	Double-sided programmable interconnect structure
5,973,340	Interconnect substrate with circuits for field-programmability and testing of multichip modules and hybrid circuits
5,903,041	Integrated two-terminal fuse-antifuse and fuse and integrated two-terminal fuse-antifuse structures incorporating an air gap
5,661,409	Field programmable printed circuit board
5,654,564	Interconnect structure with programmable IC for interconnecting electronic components, including circuitry for controlling programmable IC
5,640,308	Field programmable circuit module
5,544,069	Structure having different levels of programmable integrated circuits interconnected through bus lines for interconnecting electronic components
5,504,354	Interconnect substrate with circuits for field-programmability and testing of multichip modules and hybrid circuits
5,451,811	Electrically programmable interconnect element for integrated circuits
5,432,708	Multichip module integrated circuit device having maximum input/output capability
5,414,638	Programmable interconnect architecture
5,413,489	Integrated socket and IC package assembly
5,412,261	Two-stage programmable interconnect architecture
5,406,138	Programmable interconnect architecture using fewer storage cells than switches
5,400,948	Circuit board for high pin count surface mount pin grid arrays
5,400,294	Memory cell with user-selectable logic state on power-up
5,400,262	Universal interconnect matrix array
5,384,433	Printed circuit structure including power, decoupling and signal termination
5,383,787	Integrated circuit package with direct access to internal signals
5,377,124	Field programmable printed circuit board
5,371,390	Interconnect substrate with circuits for field-programmability and testing of

Publication No.	Title
	multichip modules and hybrid circuits
5,367,482	High voltage random-access memory cell incorporation level shifter
5,341,267	Structures for electrostatic discharge protection of electrical and other components
5,321,322	Programmable interconnect architecture without active devices
5,319,261	Reprogrammable interconnect architecture using fewer storage cells than switches
5,315,545	High-voltage five-transistor static random access memory cell
5,313,021	Circuit board for high pin count surface mount pin grid arrays
5,311,053	Interconnection network
5,301,147	Static random access memory cell with single logic-high voltage level bit-line and address-line drivers
5,264,741	Low current, fast, CMOS static pull-up circuit for static random-access memories
5,257,239	Memory cell with known state on power-up
5,239,503	High voltage random-access memory cell incorporating level shifter
5,077,451	Custom tooled printed circuit board
5,055,973	Custom tooled printed circuit board
20020100010	Field programmable printed circuit board
20010009032	Structure having different levels of programmable integrated circuits interconnected through bus lines for interconnecting electronic components

and

WHEREAS, Mentor Graphics Corporation (hereinafter Assignee), a corporation organized under the laws of the state of Oregon, having a place of business at 8005 SW Boeckman Road, Wilsonville, OR 97070-7777, desires to acquire the entire right, title and interest in and to said Patent Properties and worldwide rights in the inventions described therein;

NOW, THEREFORE, be it known that for good and valuable consideration, receipt of which is acknowledged, Assignor does hereby sell, assign, transfer to Assignee and its successors, assigns and legal representatives, the entire right, title and interest in and to the Patent Properties identified above, including all worldwide rights thereto, rights of priority therein and rights to file for protection of inventions set forth therein under the Patent Cooperation Treaty and under any other treaty or laws of any country, and in and to any and all letters patent which have been, or may be, granted therefor, and all divisionals, continuing applications, reexaminations, reissues and extensions thereof; the same to be held and enjoyed by Assignee, its successors, assigns and legal representatives to the full end of the term or terms for which any and all letters patent may be

granted, together with all claims against third parties for damages by reason of past infringement of any one or more of said Patent Properties with the right to sue for and collect the same for Assignee's own use and for the use of Assignee's successors, assigns and other legal representatives;

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue any and all letters patent of the United States resulting from said Patent Properties and any confirmations, divisions, continuations, reexaminations, reissues or extensions thereof, to Assignee, or if directed by Assignee to Assignee's successors, assigns or legal representatives;

ASSIGNOR covenants and agrees in favor of Assignee and its successors that at any time upon the request of Assignee or its successors, Assignor will, at Assignee's expense, communicate to Assignee or its successors all information known to Assignor relating to the Patent Properties, execute and deliver all papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts necessary: (i) to execute papers reasonably required by Assignee to perfect title to the Patent Properties, including divisions and continuations thereof and to any and all letters patent which may be granted therefor or thereon, in any country, including reissues or extensions, in Assignee or its successors; (ii) to assist Assignee or its successors in obtaining, maintaining, confirming or enforcing by reissue or reexamination a grant of a valid United States Patent to Assignee on said Patent Properties; and (iii) to assist Assignee in connection with any interference which may be declared concerning said Patent Properties and any letters patent which may be granted therefor or thereon, or any confirmation, division, continuation, reexamination or reissue thereof;

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ASSIGNOR agrees, upon request of Assignee, its successors, legal representatives or assigns, to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar treaties or agreements.

IN WITNESS WHEREOF, the Assignor and Assignee have executed this Assignment effective as of the date of the last to sign below.

ASSIGNOR

ASSIGNEE

APTIX CORPORATION

Mentor Graphics Corporation

By: H. El-Sisi  
Name: Hendi El-Sisi  
Title: CEO  
Date: 6/27/05

By: Mark A. Porter  
Name: Mark A. Porter  
Title: Senior IP Counsel  
Date: 6 July 2005

Subscribed and Sworn to Before Me this 27th day of June, 2000 AMS

Subscribed and Sworn to Before Me this \_\_\_\_\_ day of \_\_\_\_\_, 2000 MS

Sally A. Morello  
Notary Public  
My Commission Expires 9/26/05

Notary Public  
My Commission Expires \_\_\_\_\_





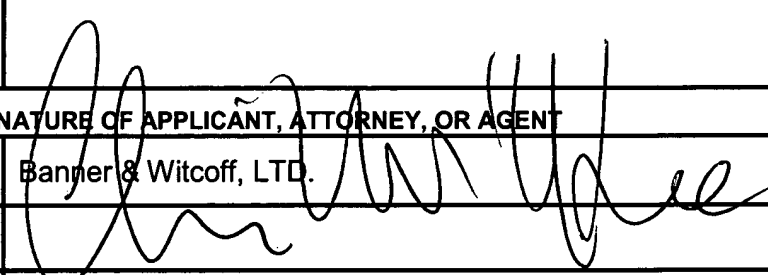


# TRANSMITTAL FORM

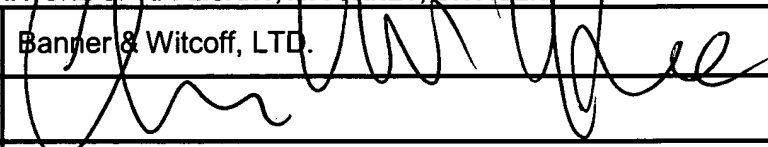
(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)		Application Number	10/052,671
		Filing Date	January 17, 2002
		First Named Inventor	Amr M. MOHSEN
		Art Unit	2128
		Examiner Name	Hugh M. Jones
Total Number of Pages in This Submission	9	Attorney Docket Number	003921.00248

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Assignment submission dated 9/1/05
<b>Remarks</b> 		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm	Banner & Witcoff, LTD.		
Signature			
Printed Name	Christopher L. McKee		
Date	JAN. 18, 2006	Reg. No.	32,384

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Signature			
Typed or printed name		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.